

Sylphid's Storm

Suite: Elemental Spirits

by Arya Akhavan (September 2012)

Angles for R.I. = 1.540

47 + 12 girdles = 59 facets

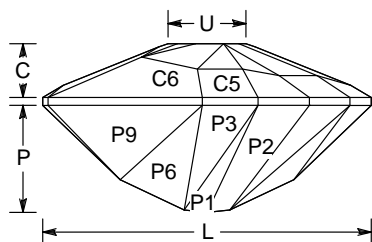
2-fold radial symmetry

96 index

L/W = 1.312 T/W = 0.316 U/W = 0.311

P/W = 0.428 C/W = 0.215

Vol./W³ = 0.310



PAVILION

P1	41.39°	41-89	Set keel depth.
P2	42.08°	38-86	Create culet with P1.
G1	90.00°	38-86	Set stone size.
G2	90.00°	44-92	Meet P1, P2, G1, P3
P3	43.10°	44-92	Meet P1, P2, G1 (level girdle)
P4	42.33°	34-82	Meet P1, P2, P3
P5	41.06°	32-80	Meet P1, P2, P3, P4
P6	42.97°	46-94	Meet P1, P2, P3, P4, P5
G3	90.00°	96-48	Meet G2, P3, P6
G4	90.00°	34-82	Meet P2, G1, P4 (level girdle)
G5	90.00°	29-77	Meet P4, P5, G3, G4
P7	44.07°	29-77	Meet P4, G3, P5, G5 (level girdle)
P8	44.11°	23-71	Meet P5, P6, P7
P9	46.85°	96-48	Meet P3, G2, P6, G4; P5, P6, P7, P8 (level girdle)
G6	90.00°	23-71	Meet G5, P7, P8

CROWN

C1	30.75°	25-73	Set girdle width.
C2	32.77°	19-67	Level girdle.
C3	34.80°	14-62	Level girdle.
C4	37.82°	10-58	Level girdle.
C5	37.41°	04-52	Level girdle.
C6	37.41°	96-48	Level girdle.
C7	21.61°	27-75	Meet G4, G6, C1, C7
C8	22.96°	21-69	Meet C1, C2, C7
C9	28.88°	14-62	Meet C2, C3, C8
C10	30.75°	11-59	Meet C3, C4, C9
C11	30.22°	04-52	Meet C4, C5, C10
C12	27.74°	02-50	Meet C5, C6, C11; C9, C10, C11
C13	15.43°	43-91	Meet C6, C7, C12
C14	14.56°	33-81	Meet C6, C7, C12, C13
T	0.00°	Table	Meet C9, C10, C11, C12

The crown layout was inspired by the weather symbol for hurricanes, since a sylphid is a wind spirit. The girdle outline was entirely trial-and-error, with lots of reflections and random scaling. Written for tan scapolite, but works in any material from feldspar to CZ (RI = 1.52 - 2.16) with no changes. Also works in fluorite!

Suggested oblique length = 12-18 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Sylphid's Storm.gem